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5:	gb_pac:	*
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8:	gb_p12:	*
9:	gb_p1:	*
10:	gb_p2:	*
11:	gb_p3:	*
12:	gb_ov:	*
13:	gb_srs:	*
14:	gb_ay:	*
15:	gb_un:	*
16:	gb_v:	*
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18:	em_fun1:	*
19:	em_fun2:	*
20:	em_in:	*
21:	em_on:	*
22:	em_or:	*
23:	em_ov:	*
24:	em_pat:	*
25:	em_pa:	*
26:	em_p1:	*
27:	em_po:	*
28:	em_srs:	*
29:	em_ay:	*
30:	em_un:	*
31:	em_v:	*
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33:	gb_mt2:	*
34:	gb_in1:	*
35:	gb_in2:	*
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37:	em_ba2:	*
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44:	gb_mt6:	*

1	2715.4	95.3	2802	11	AF0844644	AF084644 Homo sapi
2	2586.2	90.7	2905	11	AF0844645	AF084645 Homo sapi
3	2576.8	90.4	4448	10	HSA19936	AJ009936 Homo sapi
4	2344.8	82.3	2437	10	HSA19937	AJ009937 Homo sapi
5	1866.6	65.3	4166	40	AF061056	AF061056 Homo sapi
6	1046	36.7	1895	3	AF182217	AF182217 Oryctolag
7	974.2	34.2	1709	12	AF031814	AF031814 Mus muscu
8	967.8	34.0	1755	12	AF151377	AF151377 Rattus no
9	343	12.0	365	13	G36929	G36929 SHGC-56597
10	280.8	9.9	1377	12	MUSYDR	D31569 Mouse mRNA
11	278.8	9.8	2043	12	RA1DHNRD3	U04147 Rat I.25-dl
12	275	9.6	2494	4	AF011356	AF011356 Gallus ga
13	272.8	9.6	1284	11	AF026260	AF026260 Homo sapi
14	272.8	9.6	1335	9	HSVD3R	X67482 H.sapiens m
15	272.8	9.6	4604	4	HUMVDR	UJ3258 Human vitam
16	267.8	9.4	1724	4	CJ112641	UJ2641 Coturnix ja
17	258.6	9.1	1678	4	XLRN0N8T	X75163 X.laevis mR
18	236	8.3	1071	5	EL1584	EL1584 Rat mRNA
19	232	8.1	1782	4	XLU91846	U91846 Xenopus lae
20	188.6	6.6	1450	5	EL14585	EL14585 Human mRNA
21	172.2	6.0	1450	5	HS0N09RE	Z30425 H.sapiens m
22	170.6	6.0	1450	5	AR009748	AR009748 Sequence
23	170.6	6.0	1450	5	173479	173479 Sequence 1
24	170.6	5.9	1450	5	181188	181188 Sequence 1
25	168.6	5.9	1350	12	AF009337	AF009337 Mus muscu
26	117.4	4.1	1332	12	AF009338	AF009338 Mus muscu
27	100.8	3.5	2797	35	DM036792	X36792 Drosophila
28	100.8	3.5	113474	43	AC013932	AC013932 Drosophila
29	100.8	3.5	116280	33	AC007853	AC007853 Drosophila
30	100.8	3.5	132103	33	AC008206	AC008206 Drosophila
31	100.4	3.5	203	9	HUMYDRBMC	M65208 Human vitam
32	97.6	3.4	1898	5	146765	146765 Sequence 1
33	97.6	3.4	1979	5	AR035536	AR035536 Sequence
34	97.6	3.4	1979	24	EL1456	EL1456 cDNA encodi
35	97.6	3.4	2010	9	HS007132	U07132 Human stereo
36	97.6	3.4	2030	5	136657	136657 Sequence 1
37	97.6	3.4	2030	5	170211	170211 Sequence 1
38	97.2	3.4	1746	9	HS014534	U14534 Human Orpha
39	94.4	3.3	1494	4	GGRARA21	X78335 G.gallus re
40	94.4	3.3	1552	5	GGRARA1	X73972 G.gallus RA
41	93	3.3	2908	5	108117	108117 Sequence 1
42	91.4	3.2	1284	10	SS0916	SS0916 PML-RAR fus
43	91.4	3.2	1920	9	HSRAR	X06558 Human mRNA
44	91.4	3.2	1944	10	HSU41743	U41743 Human nucle
45	91.4	3.2	2073	10	HSU41742	U41742 Human nucle

VERSION AF084644.1  
KEYWORDS GI:3769536

GenCore version 4.5  
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OW protein - protein search, using sw model

Run on: March 29, 2000, 10:21:30 ; Search time 22.21 Seconds

(without alignments)  
504,436 Million cell updates/sec

Title: US-09-209-069-18

Perfect score: 2494

Sequence: 1 MTVTRTHHFKEGSLRAPALP.....ODIHPRATPLMDELFGITGS 473

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 188963 seqs, 23686106 residues

Total number of hits satisfying chosen parameters: 188963

Minimum DB seq length: 0

Maximum DB seq length: 1000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : A\_Geneseq\_36:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	979.5	39.3	386	1 R98521	Xenopus orphan rec
2	801	32.1	423	1 W94623	Rat vitamin D rece
3	798	32.0	423	1 W47509	Rat vitamin D rece
4	791	31.7	427	1 Y09035	Human vitamin D re
5	789	31.6	427	1 W68156	Human vitamin D re
6	789	31.6	427	1 Y09064	Human vitamin D re
7	789	31.6	427	1 Y09036	Human vitamin D re
8	768	30.8	348	1 W32536	Constitutively act
9	768	30.8	348	1 W93902	Human CAR receptor
10	763	30.6	348	1 R41346	Human CAR receptor
11	725	29.1	358	1 W93903	Mouse CAR receptor
12	656	26.3	356	1 W37261	Rat vitamin D rece
13	656	26.3	356	1 W94622	Rat vitamin D rece
14	632	25.3	367	1 R43656	Rat vitamin D rece
15	500.5	20.1	460	1 R74738	Human ubiquitinous n
16	500.5	20.1	461	1 R52980	Human recombinant
17	500.5	20.1	461	1 R98140	NER receptor poten
18	500.5	20.1	461	1 R97982	Human steroid rece
19	498	19.9	460	1 W25034	Human ubiquitinous n
20	497.5	19.9	461	1 R62634	Human foetal lung
21	491.5	19.7	447	1 W03326	LXR-alpha orphan
22	490	19.6	446	1 R99736	Retinoid X recepto
23	488	18.5	446	1 R94169	Rat ubiquitinous nuc
24	483.5	18.4	443	1 R74739	Rat ubiquitinous nuc
25	483.5	18.4	443	1 W25035	XR2, DNA encoding
26	481.5	18.3	440	1 R33744	Human retinoid rec
27	472.5	18.9	440	1 W40072	Farnesoid-activate
28	461	18.3	469	1 W03448	Lucilia cuprina ec
29	455.5	18.3	457	1 W71297	Retinoid X recepto
30	452.5	18.1	484	1 R97935	Sequence encoded b
31	450.5	18.1	456	1 R80921	Retinoid X recepto
32	445	17.8	451	1 R99739	EAR-1r gene produc
33	439.5	17.6	579	1 R71565	Ecdysone receptor.
34	434.5	17.4	878	1 R13793	

35	432	17.3	514	1 R47621	Rat thyroid hormon
36	432	17.3	746	1 W33655	Modified ecdysone
37	431.5	17.3	878	1 R32889	DHR3alpha protein
38	428	17.2	448	1 P90341	hap (hepatoma) pro
39	427	17.1	448	1 R10548	Murine Retinoid Ac
40	427	17.1	448	1 R84725	Murine Retinoid Ac
41	426	17.1	448	1 R55128	Retinoid acid rece
42	425	17.0	448	1 R65764	Human RAR-beta, De
43	425	17.0	448	1 R85315	Human hepatoma ret
44	418	16.8	410	1 R78318	Human thyroid horm
45	417	16.7	606	1 W95701	Bombyx mori nuclea

## ALIGNMENTS

RESULT	1	
R98521		
ID	R98521 standard; Protein: 386 AA.	
AC	R98521;	
DT	14-NOV-1996 (first entry)	
DE	Xenopus orphan receptor 6.	
KW	Xenopus orphan receptor 6; XOR-6; steroid receptor; vitamin D;	
KW	hydroxybenzoate; mercaptohydroxybenzoate; aminobenzoate.	
OS	Xenopus laevis.	
EH	Key	Location/Qualifiers
FT	domain	37..102
FT	/label= DNA_binding_domain	183..386
FT	/label= Ligand_binding_domain	
PN	W09622390-A1.	
PD	25-JUL-1996.	
PE	16-JAN-1996; U00058.	
PA	17-JAN-1995; US-374445.	
PA	(SALK ) SALK INST BIOLOGICAL STUDIES.	
PI	Blumberg B. Evans RM, Unesono K;	
DR	WPI: 96-334546/35.	
DR	N-PSDB: T36499.	
PT	DNA encoding receptor polypeptide responsive to hydroxy, mercapto or	
PS	amino benzoate(s) - useful to regulate gene transcription	
CC	Claim 4: Page 27-28: 42pp; English.	
CC	Xenopus orphan receptor 6 (XOR-6) (R98521) is a new member of the	
CC	steroid receptor superfamily, characterised as being responsive to	
CC	the presence of hydroxy, mercapto or amino benzoate(s) and as	
CC	regulating the transcription of associated gene(s). It shows 73%	
CC	identity in the DNA binding domain, and 42% identity in the ligand	
CC	binding domain, to the human vitamin D receptor. Recombinant XOR-6	
CC	can be expressed in animal cells; a cDNA clone (T36499) coding for	
CC	XOR-6 has been isolated. The recombinant XOR-6 may be used to	
CC	regulate gene transcription or to raise antibodies of diagnostic	
CC	or therapeutic appln.	
SO	Sequence 386 AA;	
Query Match	39.3%; Score 979.5; DB 1; Length 386;	
Best Local Similarity	48.6%; Pred. No. 2e-90;	
Matches 202; Conservative 60; Mismatches 105; Indels 49; Gaps 9;		
QY	57 EDTESVPGKPSVNADEVGPGPICRVCGDKATGYHFNWTCGCGGFFRRANKRNLRC	116
DB	14 EEHEBASNSCGTGEDEDDDPKICRACGDRATGYHFNMTCTGCGGFFRAVAKRNLRLSC	73
QY	117 PRKGAQCEITRRKROCOACRLKRCLESGMKKEMISDAVEERALLTKRK-KSRRTGQ	175
DB	74 PF-QNSCVANKNRKRCACRKLKCLDGMKELTMSDAVEORALLTKRKLLPPT	132
QY	176 PLGVGLGLEEQRMIRRELDQAQKTFDTFSHFKNFRPLGVLSGCELPESLQAPSREA	235
DB	133 PGGA-SLPFEGQHFLTOLVGAKHTFTDFNFTSKNFR-----PIR---	172
QY	236 AKMSQVRKDLCSLKLKSLQIRGDSGVNWKPPADSGGGEISFLPHADMSTYMKGITS	295
DB	172 -----RSSDPT---QEPQATS--SEAFILMPLHISDLVYMKIGITS	207

seq_name	gb_pr3	AF084644
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gb_ro:RNU14533	+	483.50
gb_pr2:HS068233	+	472.50
		682.80
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		1959
		146766
		Sequence 3 from pate
		1959
		U1533
		Rattus norvegicus OR
		2218
		U68233
		Human farnesol recep

seq_id	documentation	block
LOCUS	AF084644	2802 bp mRNA PRI 20-OCT-1998
DEFINITION	Homo sapiens orphan nuclear receptor (PAR2) mRNA, complete cds.	
ACCESSION	AF084644	
VERSION	AF084644.1	GI:3769536
KEYWORDS	human.	
SOURCE	Homo sapiens	
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.	
REFERENCE	1 (bases 1 to 2802)	
AUTHORS	Bertilsson, G., Heidrich, J., Svensson, K., Asman, M., Teneberg, I.	

TITLE	JOURNAL	MEDLINE	REFERENCE	AUTHORS
Identification of a human nuclear receptor defines a new signaling pathway for CYP3A induction	Proc. Natl. Acad. Sci. U.S.A.	95 (21), 12208-12213 (1998)	98445350	Stålvik-Bäckman, M., Ohlsson, R., Westlund, H., Blomquist, P. and Berkenstam, A.
2 (bases 1 to 2802)				Bertilsson, G., Asman, M., Blomquist, P. and Berkenstam, A.

Sweden  
institute, karolinska institute, doktorsingenj, stockholm 17177,

FEATURES		Location/Qualifiers
source	1..2802	/organism="Homo sapiens" /db_xref="taxon:9606" /tissue_type="liver"
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CDS	60..1481	/gene="PAR2" /codon_start=1 /product="orphan nuclear receptor" /protein_id="AAC64557.1" /db_xref="GI:3769537.1"
		/translation="MTVIRTHHFKEGSLRPAALPLHSAAEALSNHPRGPEANLEVP KSSMNDVHCEDETESVPGKPSVNADEVGPOICRVGDATGFHFMVMTCEGKG FRRRAKRNARARCEPRKGCAGETTRTRKOCARCKLESQMKEMTMSDAVER SCLLRKKSERTGTOPLVGQGLTEBDRMMIRLEMDQMTPTDTFSHPNFRPGVLS RCEIAPESLQAPSRREAAKMSOVNRKDLGKLVSLQLRGDSVWNNKPPADSGGKRTF SLTPHADMSYMPFGIISFAKVIYFRDLPLEDOIILKGAAFELCOARNTVFAE TGTMEGRSLCYLDEPTAGSGCOLLEPRHLKFTMYKKLQHEEYVLMKAIISFSDR PVLQHRVYVDQLOEOPAILTKASTIECNRPQPAHRLFLIKIMALTELRSINQHTQRL LRIQDHPATPLMDELFGITGS"
BASE COUNT	723 a 715 c 755 g 609 t	
ORIGIN		
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Ratio: 5.273		Gaps: 0
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US-09-209-069-18 x AF084644	..	
Align seg 1/1 to: AF084644 from: 1 to: 2802		
1 Methrvalthrargthrrhishisphelysglulglyserleuaralapr 17		
60 ATGCACTACCAAGACTCCACTTCAAGAGGGGCCCTTCAACATCTAA 109		
17 caaiaieproleuhiseralaaiaaiaaglualealaaserasnhispro 34		
110 TGCATATCCCTGCACAGTGTCTGGCGGTGAGTTGGCTTCAACATCTAA 150		